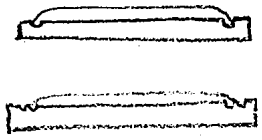
Notebook Series -- Notebooks by Edison and Other Experimenters
Disc Record Book No. 8
Notebook, N-16-02-22.2

This notebook was used by Edison during February-March 1916 for notes on experiments to improve the composition of disc record blanks, the application of varnish surfaces during the transfer process, and the operations of disc production and pressing. Included are notes on different metallic plates used during transfers, along with a calculation of the number of records that might be produced each day. Also included is additional information on experiments 423E and 457E, which are described in Book 7 and Book 9 respectively. The front cover is labeled "Disc 8" and "Mechanical." The pages are unnumbered. Only 6 pages have been used.

Made 2 1¼" flat disc with ring at Edge another with 2 rings



There is very little advantage in the 2 ring - can probably go a little higher angle before varnish runs over Edge

Flowed Varnish over both but it does not stop the wrinkles on the face of the metallic plate & bottom of Varnish —

2-22-16-

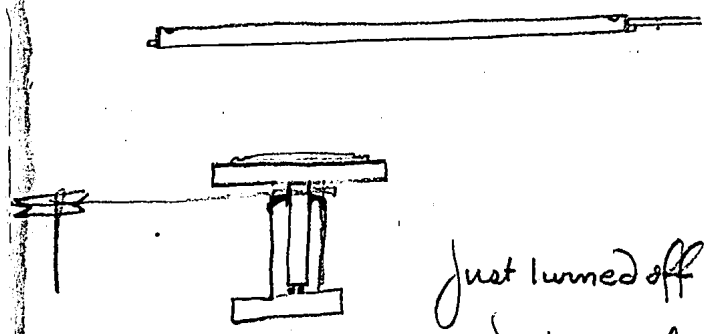
600 Revolution Min 300 threads to inch
3" to Turn - 1½ minute to face
of 200 threads which is planing
1 minute - 1¼ min for Complete
Operation 1 place 2½ for
records
About 250 Records per machine
1 girl attends 2 machines

500 Records daily

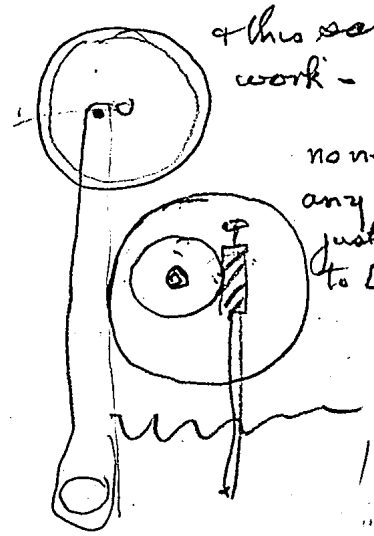
3 min per record

40 machines - 20 girls

2-22-16



Just turned off a
record it is Ok



this scheme will
work -

no need to turn off
any part except
just leaving label
to Edge

Lead plates 100/1000 + 1/8 - after
Baking the great strain on Varnish
dishes the lead plates BAD —

Lead is hopeless —

Tried $\frac{1}{4}$ steel Tool steel, this
is all right —

Cast iron $\frac{1}{4}$ gets a little out
but think it is all right as
they are drawn very little
by contraction of Varnish

$\frac{1}{8}$ Lead plate is drawn dished
by contraction of the
Varnish — It flattens
out under pressure: flat
but that dont make Var Even

F 423

On Feby 25 transferred to one side only 6 blanks 1412 brushed both sides with Weld Var - Used - Req Var 45cc

Also transferred 6 of 387 Var 60 cc one sid. only

	Feby 25	March 4	Reg
1	019	034	
2	025	022	
3	027	025	
4	000	000	
5	023	032	
6	014	000	
			387

1	000	Margin Ck 000	
2	000	Center Ck left 2" 000	
3	000	030	
4	000	mmo 001	
5	000	015	
6	015	025	

457 E

Duplicate of 423 Transfer 1 side only

	4th March	Req 450cc			
1	050				OK
2	030				OK
3	050				Red C OK
4	033				Cooked C Ok
5	038				Red C OK
6	028				OK
mean	038.1				
		387 50 cc			
	4th March				
1	033				OK
2	045				OK
3	034				Marqui CK
4	025				Left Ch
5	039				OK
6	013				Red C OK
	033				

Schedule for transferring
wcs 3 min contact at 100 lbs
12 " at 300 lbs.

1412 blank brushed both sides